



Guangzhou Video-star Electronic Industrial Co. Ltd.

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K-BUS Colour Touch Panel 3.5"

User Manual-Version 1.0

CHTF-35/00.1.01

KNX/EIB Smart Home and Building Control System



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Contents

1. Introduction

The Colour Touch Panel 3.5" (hereinafter referred to as TFT) is used to display status and control various devices in the EIB/KNX system. When you touch some graphic button in the TFT operation system, the TFT will execute a predefined function, such as switch lighting, scene control or blinds/shutter control etc. The TFT can display frame via LCD and make warning tone compare with common button panel, and the users can operation the TFT system easily and clearly via interactive interface.

This manual provides detailed technical information about the TFT for users as well as assembly and programming details, and explains how to use the TFT by the application examples.

The TFT is connected to the bus via the EIB connection terminals and need a 30V DC additional supply voltage, to assign physical address and configure the software parameter settings, and update the data directly through an SD card.

The TFT functions are summarized as following:

- 1. Capacitive touch screen, TFT colour display;
- 2. Switching, scenes, dimming, curtains control, intelligent scene control and other control functions
- 3. Time and date display
- 4. Screensaver options: clock, electronic photo album, gradient black or do not use
- 5. Configure the database through the PC software, and update data directly via an SD card
- 6. Customizing the setting of the main interfaces.

2. Technical Parameters

Power Supply Operating Voltage 21-30V DC, powered

from BUS

Auxiliary power supply 20-30V DC

Bus Current <12mA

Bus Power Consumption <360mW

Auxiliary Power Consumption <6W

Connections EIB / KNX Via bus connection

terminal(black/red)

Auxiliary power supply Via bus connection

terminal(grey/yellow)

Cable cross-section Single core 0.2—6.0mm²

Multi core 0.2—4mm₂

Operating and Red LED and For assignment of the

Indicating Programming button physical address

Green LED flashing Indicate the device running normally

Display screen reset button Restart TFT display system

Temperature Operation $-5 \text{ }^{\circ}\text{C} \dots + 45 \text{ }^{\circ}\text{C}$

Storage $-25 \, \mathbb{C} \dots + 55 \, \mathbb{C}$

Transport $-25 \, \mathbb{C} \, ... + 70 \, \mathbb{C}$

Environment Humidity <93%, except for

dewing

Design Embedded installation

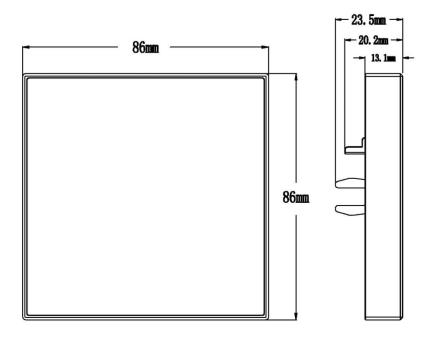
Installation Standard 86-box; wall-mounted

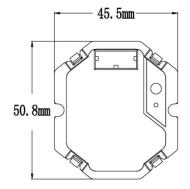
Dimensions 86*86mm

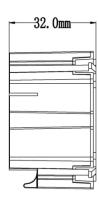
Weight 0.25KG

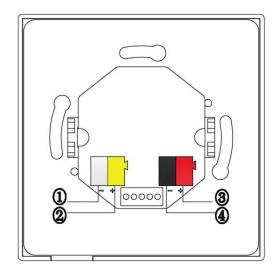
3. Dimensional Diagram and Circuit Diagram

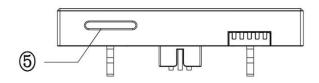
3.1 Dimensional Diagram











1 and 2: auxiliary power supply connection terminals connection terminals

⑤: SD card slot

③ and ④: KNX/EIB Bus

4. Project Design and Applications

Features Overview:

TFT main interface can be configured according to the users' needs, unrestricted buttons, and max. 10 pages of icons can be configured.

Switching and Dimming

The functions can be used for switching and dimming the lighting devices, the dimming and switching has feedback status value. Its dimming way uses absolute dimming.

Shutters/blinds Control

The function can be used for movement/lamella adjustment of a blind or a shutter, and the quantity of devices under control depends on the user.

Scenes Control

The function is used for recalling and storing a scene, and the quantity of devices under control depends on the user.

Customized Value Sending

The function can be used for sending values of different data type. A group values can be send to bus via an operation, which include three values that may be different data type. Sending interval can be configured according to user needs.

Intelligent Scene

User can configure via PC software scene values for different time periods, 24 hours can be divided into max. 24 time periods, thus user can call different scenes in different time periods.

5. Configuration Software Setting Description

- 1. Main Interface
- 2. Functions & Interfaces

6. Interface Effects

Operation Interface and Icon

6.1 Main Control Interface



The main interface shows time and date, page name and functional buttons.

Switch pages by sliding around

6.2 Intelligent Scene Mode

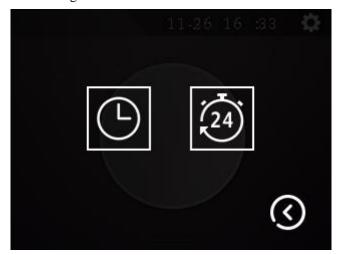


By sliding down from the main interface, it enters the intelligent scene interface; the main interface displays time and date, the name of scene, and the time setting button.

User can send in different scenarios in pre-set time period, to achieve the purpose of calling different scenarios for different time.

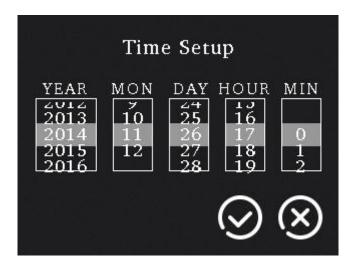
User can exit Intelligent Scene interface by sliding the screen up, and return to the main interface.

6.3 Time Setting & Time Switch Setting Menu



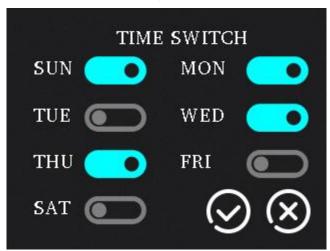
6.4 Time Setting Interface

Clicking "Time Setting" in Intelligent Scene to enter time setting interface, as shown below:



6.5 Time Switch

Clicking the icon can enable or disable the day timing function of weekly timer.



6.6 Screensaver Clock Interface



6.7 Program Updating Interface

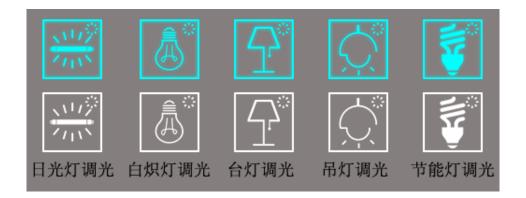
When user inserts the SD card with project file into the slot, it will prompt, as shown below:



7. Functions & Applications

- 7.1 Switching and Dimming
- 1. Icon





2.Operation Interface

Short press the button to send the switching telegram

Long press the button for dimming (according to the parameters setting)

See the figure as follows,



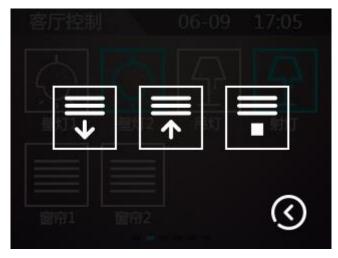
7.2 Shutters/blinds Control

1, Icon



2. Operation Interface

Short press the curtain button to enter its secondary interface, showing as follows,



Depending on the configuration of the software parameters, in blinds/curtains mode, two or three buttons can be invoked;

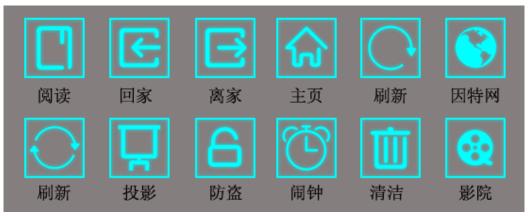
Long-press button to move up or down the blinds, releasing the button to stop the blinds; (according to the parameters setting)

Short-press button can move up and down or stop the blinds.

Click the bottom right button to return to a main interface.

7.3 Scenes Control

1. Icon



2. Operation Interface

Short-press to call scenes

Long press to enter the secondary interfaces, asking whether to save the scene (depending on the parameter settings), showing as the below figure,



Click on the button of showing effect picture, return to the main interface.

7.4 Customized Value Sending

1.Icon



2.Functions

Click the button to send a group of different types of data telegrams. (According to the parameters setting)

7.5 Temperature Control

1. Icon



The ton row











display;





2. Functions

Humidity: by bus telegram to update values.

Heating/Cooling: configure temperature control system through the configuration software. If set as heating/cooling system, user can click to switch between heating and cooling.

Speed: Long press its icon to enter the wind speed setting interface. After setting, the new value will be updated in the interface. Short-press to switch to OFF, AUTO (if you set the wind speed automatic mode).

Indoor/outdoor Temperature: click the icon to switch to display indoor or outdoor temperature, and users can set automatic switching time in the configuration software.

Working Modes: user can switch the current mode by clicking the icon.

Temperature Setting: press it to set the current mode temperature range of 5 to 40 degrees Celsius.